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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/068,433	PO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Leith A. Al-Nazer	2821	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 08 March 2005.
2. ☒ The allowed claim(s) is/are 1,3-26 and 29-34.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☒ to Paper No./Mail Date 01 April 2003.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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| <ol style="list-style-type: none"><li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li><li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li><li>3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date <u>10/18/2004</u></li><li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li></ol> | <ol style="list-style-type: none"><li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li><li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li><li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li><li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li><li>9. <input type="checkbox"/> Other _____</li></ol> |
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Don Wong  
Supervisory Patent Examiner  
Technology Center 2800

## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 1, 3-26, and 29-34 are allowed.

2. The following is an examiner's statement of reasons for allowance:

The prior art of record (specifically Chang et al. '965, Chang et al. '554, Putnam et al. '288, Sorin et al. '791, and non-patent literature to Chang et al. entitled "A Novel Intracavity For Efficient Cascaded Raman Generation Using WDM Couplers") fails to teach or suggest one or more of the limitations found in independent claims 1, 21, 29, and 33. With respect to independent claim 1, the prior art of record fails to teach or suggest the first fiber portion being devoid of a reflector substantially reflecting energy at the wavelength. In contrast, Chang et al. '965 teaches reflector 11 in the first fiber portion. With respect to independent claim 21, the prior art of record fails to teach or suggest the combination of a first fiber Bragg grating in the first non loop-shaped portion of the fiber, the first fiber Bragg grating being capable of substantially reflecting energy comprising a Stoke shifted wavelength, and a second fiber Bragg grating in the second non loop-shaped portion of the fiber, the second fiber Bragg grating being capable of substantially reflecting energy having a wavelength comprising the Stoke shifted wavelength. In contrast, the two fiber Bragg gratings in Chang et al. '965 (11 and 17; figure 4A; column 6, lines 21-23) and Chang et al. '554 (31 and 34; figure 4) reflect different frequencies. With respect to independent claim 29, the prior art of record

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(specifically Putnam et al. '288 and Sorin et al. '791) fails to teach or suggest no grating of the third grating pair being located between the gratings of the second pair. With respect to independent claim 33, the prior art of record fails to teach or suggest a third fiber Bragg grating in the second non loop-shaped portion of the fiber, the third fiber Bragg grating being capable of substantially reflecting energy having a wavelength comprising a second Stoke shifted wavelength. Therefore, independent claims 1, 21, 29, and 33, as well as all dependent claims, are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Communication Information***

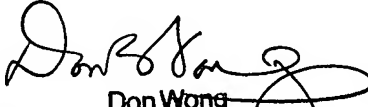
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leith A. Al-Nazer whose telephone number is 571-272-1938. The examiner can normally be reached on Monday-Friday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LA

  
Don Wong  
Supervisory Patent Examiner  
Technology Center 2800